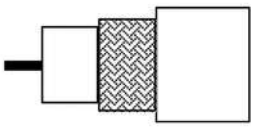
Product: MRG5801



MRG5801 - Mil-Spec Coax, 50 Ohm, RG-58 Type, 20 AWG Str TC, 95% TC Braid, LSZH Jkt, Commercial

Product Description

Mil-Spec Coax, 50 Ohm, RG-58 Type, 20 AWG (19x33) Tinned Copper Conductor, PE Insulation, 95% Tinned Copper Braid Shield, LSZH Jacket, Commercial

Technical Specifications

Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)

Construction Details

RG Type:	58

Conductor

No. of Elements	Size	Stranding	Material
1	21 AWG	Stranded	TC - Tinned Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene	2.95 mm (0.116 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	93%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.95 mm

Outer Jacket1 Table Notes:	According to EN 50290-2-20

Electrical Characteristics

Regularity of Impedance:	Min. 40 dB

Return Loss

Frequency	Min. Return Loss
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 1000 MHz	18 dB

Return Loss Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed

Attenuation

Frequency	Nom. Attenuation
10 MHz	4.7 dB/100m
200 MHz	23 dB/100m
400 MHz	34 dB/100m
1000 MHz	60 dB/100m

Attenuation Table Notes:	Max. attenuation 10% higher

Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
40.6 Ohm/km (12.4 Ohm/1000ft)	100 pF/m (30 pF/ft)	50 Ohm	66%

Voltage

Voltage Rating
4000 V DC / 2000 V RMS

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-30°C To +70°C	-5°C To +50°C	-30°C To +70°C

Bend Radius

Stationary Min.
25 mm (0.98 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
Military Compliance:	MIL-C-17
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50289
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.291 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
MRG5801.10100	Black	Reel	100 m	8719605103260
MRG5801.00500	Black	Reel	500 m	8719605103253

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